--13. (Amended) A gasoline additive for a direct injection gasoline engine which

B

comprises a nitrogen-containing compound represented by the formula:

$$R^{1} = \begin{bmatrix} R^{2} & R^{3} \\ -C & C \\ R^{4} & R^{5} \end{bmatrix}_{A} O - CH_{2}CH_{2} - N - (X)_{2}$$

wherein R¹ is hydrogen, R², R³, R⁴ and R⁵ are each independently selected from the group consisting of hydrogen, a C₁ - C₁₆ hydrocarbon group and a group of the formula (2a) below, a is an integer from 1 to 200 and X is a group selected from Group B below, said formula (2a) being

$$-\frac{R^{7}}{C-O}\left(-R^{9}-O\right) + R^{10}$$
 (2a)

wherein R^7 and R^8 are each independently selected from the group consisting of hydrogen, a C_1 - C_{10} hydrocarbon group and a C_2 - C_{10} alkoxyalkyl group, R^9 is a C_2 - C_6 alkylene group or a C_4 - C_{10} alkylene group having an alkoxyalkyl substituent, R^{10} is hydrogen or a C_1 - C_{30} hydrocarbon group, and f is an integer from 0 to 50; said Group B being constituted by

- (B1) hydrogen,
- (B2) a C₁ C₃₀ hydrocarbon group,

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(B3) an alkanol group represented by the formula

$$-R^{14}$$
- OH (3a)

wherein R^{14} is a $C_1 - C_6$ alkylene group,

(B4) a nitrogen-containing group represented by the formula

$$\frac{15}{R} \frac{15}{R^{16}} \frac{1}{g} R^{17} \qquad (4a)$$

wherein R^{15} is a C_2 - C_6 alkylene group, R^{16} is selected from the group consisting of hydrogen, a C_1 - C_4 alkyl group, and a group of the formula (3a), R^{17} is selected from the group consisting of hydrogen, a C_1 - C_{30} hydrocarbon group and a group of the formula (3a), and g is an integer from 1 to 5, and

(B5) a group represented by the formula

$$\begin{array}{c|c}
 & R^{19} & R^{20} \\
 & R^{21} & Y \\
 & R^{22} & R^{22}
\end{array}$$
(5a)

wherein R^{18} is a $C_2 - C_6$ alkylene group, R^{19} , R^{20} , R^{21} , and R^{22} are each independently selected from the group consisting of hydrogen, a $C_1 - C_{10}$ hydrocarbon group and a hydroxyl group, Y is selected from the group consisting of a methylene group and a methylene group substituted by either a $C_1 - C_{10}$ hydrocarbon group, a hydroxyl group, an imino group, an imino group substituted by a $C_1 - C_{10}$ hydrocarbon group or a hydroxyl group, or oxygen, and h is equal to 0 or 1.

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17. (Amended) A gasoline composition for use in a direct injection gasoline

engine, which composition comprises gasoline and a nitrogen-containing compound represented by the formula:

wherein R^1 is hydrogen, R^2 , R^3 , R^4 and R^5 are each independently selected from the group consisting of hydrogen, a C_1 - C_{16} hydrocarbon group and a group of the formula (2a) below, a is an integer from 1 to 200 and X is a group selected from Group B below, said formula (2a) being

$$-\frac{R^{7}}{C-O} \left(R^{9} - O \right) - R^{10}$$
 (2a)

wherein R^7 and R^8 are each independently selected from the group consisting of hydrogen, a C_1 - C_{10} hydrocarbon group and a C_2 - C_{10} alkoxyalkyl group, R^9 is a C_2 - C_6 alkylene group or a C_4 - C_{10} alkylene group having an alkoxyalkyl substituent, R^{10} is hydrogen or a C_1 - C_{30} hydrocarbon group, and f is an integer from 0 to 50; said Group B being constituted by

- (B1) hydrogen,
- (B2) a C₁ C₃₀ hydrocarbon group,

(B3) an alkanol group represented by the formula

$$-R^{14}$$
- OH (3a)

wherein R^{14} is a $C_1 - C_6$ alkylene group,

(B4) a nitrogen-containing group represented by the formula

$$\frac{15}{R-N} = R^{17} \qquad (4a)$$

wherein R^{15} is a C_2 - C_6 alkylene group, R^{16} is selected from the group consisting of hydrogen, a C_1 - C_4 alkyl group, and a group of the formula (3a), R^{17} is selected from the group consisting of hydrogen, a C_1 - C_{30} hydrocarbon group and a group of the formula (3a), and g is an integer from 1 to 5, and

(B5) a group represented by the formula

wherein R^{18} is a C_2 – C_6 alkylene group, R^{19} , R^{20} , R^{21} , and R^{22} are each independently selected from the group consisting of hydrogen, a C_1 – C_{10} hydrocarbon group and a hydroxyl group, Y is selected from the group consisting of a methylene group and a methylene group substituted by either a C_1 – C_{10} hydrocarbon group, a hydroxyl group, an imino group, an imino group substituted by a C_1 – C_{10} hydrocarbon group or a hydroxyl group, or oxygen, and h is equal to 0 or 1.--